

ExxonMobil EXACT™ 4056 Plastomer for Film Blends and Blown Film Applications

Category : Polymer , Film , Thermoplastic , Elastomer , TPE

Material Notes:

Product Description: Exact 4056 is an ethylene-based hexane plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. This resin can be used in blends with polyolefins to improve the heat sealing performance and toughness in film applications. It is designed for use in dispersible film and batch inclusion bag applications. Availability: Latin America, North America and South America
Additive: Antiblock: NoSlip: No Thermal Stabilizer: Yes
Applications: Blend Partner Blown Film
 Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-EXACT-4056-Plastomer-for-Film-Blends-and-Blown-Film-Applications.php

Physical Properties	Metric	English	Comments
Density	0.883 g/cc	0.0319 lb/in ³	ExxonMobil Method
Thickness	31.8 microns	1.25 mil	
Melt Flow	2.2 g/10 min	2.2 g/10 min	ExxonMobil Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	3.45 MPa	500 psi	ASTM D882
Film Tensile Strength at Yield, TD	2.90 MPa	420 psi	ASTM D882
Film Elongation at Break, MD	390 %	390 %	ASTM D882
Film Elongation at Break, TD	620 %	620 %	ASTM D882
Film Elongation at Yield, MD	10 %	10 %	ASTM D882
Film Elongation at Yield, TD	10 %	10 %	ASTM D882
Puncture Energy	6.39 J	4.72 ft-lb	ExxonMobil Method
Elmendorf Tear Strength, MD	2.20 g/micron	56.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.35 g/micron	136 g/mil	ASTM D1922
Dart Drop	32.4 g/micron	824 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	64.3 MPa	9320 psi	ASTM D882
Film Tensile Strength at Break, TD	61.1 MPa	8860 psi	ASTM D882
1% Secant Modulus, MD	30.3 MPa	4400 psi	ASTM D882
1% Secant Modulus, TD	34.5 MPa	5000 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	72.2 °C	162 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	56.0 °C	133 °F	ExxonMobil Method
Vicat Softening Point	56.1 °C	133 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.6 %	2.6 %	ASTM D1003
Gloss	79 %	79 %	ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	16 lbf	ExxonMobil Method

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